

FORM PTO-1390  
(REV 10-2004)TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY DOCKET NUMBER

4819-4752

U.S. APPLICATION NO. (if known, see 37 CFR 1.51)

TBA

**10/549396**INTERNATIONAL APPLICATION  
PCT/FI2004/000136INTERNATIONAL FILING DATE  
11 March 2004PRIORITY DATE CLAIMED  
19 March 2003

TITLE OF INVENTION

METHOD AND EQUIPMENT FOR LIQUID-LIQUID EXTRACTION

APPLICANT(S) FOR DO/EO/US

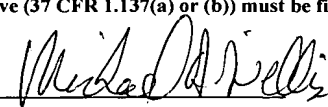
NYMAN, Bror; EKMAN, Eero; HULTHOLM, Stig-Erik; PEKKALA, Pertti; LYYRA, Juhani; LILJA, Launo; and KUUSISTO, Raimo

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)).
4. ☒ The US has been elected. (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is attached hereto
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). **Declaration Of Inventorship (Rules 4.17(iv) and 51bis.1(a)(iv))**
10. ☐ An English translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

## Items 11. to 20. below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☒ A power of attorney and/or change of address letter. **Recordal of change of applicant and agent.**
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 C.F.R. 1.821-1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or Information: Published Application with International Search Report; Second and Supplementary Notice Informing the Applicant of the Communication of the International Application to the Designated Offices; and Return Receipt Postcard.

U.S. APPLICATION NO. (if known, see 37 CFR 1.53) <b>10/549396</b> INTERNATIONAL APPLICATION NO.				ATTORNEY'S DOCKET NO.	
TBA				PCT/FI2004/000136	
The following fees have been submitted 21. <input checked="" type="checkbox"/> Basic national fee .....\$300 22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4).....\$100 All other situations.....\$200 23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....\$100 International Search Report prepared and provided to the Office.....\$400 All other situations.....\$500				CALCULATIONS \$300.00  \$200.00  \$400.00  \$900.00	PTO USE ONLY
<b>TOTAL OF 21, 22 and 23 =</b>				<b>\$900.00</b>	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
27- 100 =	0/50 =		x \$250.00	\$0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	38 - 20 =	18	x \$50.00	\$ 900.00	
Independent claims	2 - 3 =	0	x \$200.00	\$0.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$0.00	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1,800.00</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	
<b>SUBTOTAL =</b>				<b>\$1,800.00</b>	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				+ \$	
<b>TOTAL NATIONAL FEE =</b>				<b>\$1,800.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+ \$	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$ 1,800.00</b>	
				Amount to be refunded:	\$
				Amount to be charged:	\$1,800.00
a. <input type="checkbox"/> A check in the amount of \$ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. 13-4500 (4819-4752) in the amount of \$1,800.00 to cover the above fees. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 13-4500 (4819-4752). A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.					
<b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO: 27123 Enter Address Here Bartholomew Verdirame, Esq. MORGAN & FINNEGAN LLP 3 World Financial Center New York, New York 10281-2101 212 415 8700 Telephone 212 415 8701 Fax					
				Signature 	
				Bartholomew Verdirame/ Michael A. Willis Name	
				28,483 / 53,913 REGISTRATION NUMBER	

10/549396

Docket No. 4819-4752

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IC20 Rec'd PCT/PTO 14 SEP 2009

Applicant(s): NYMAN, Bror; EKMAN, Eero; HULIN, S. Erik; PEKKALA, Pertti; LYRA, Juhani; LILJA, Launo; and KUUSISTO, Raimo  
Group Art Unit: Not Yet Assigned  
Serial No.: Not Yet Assigned  
Examiner: Not Yet Assigned  
Filed: September 14, 2005 (Herewith)  
For: METHOD AND EQUIPMENT FOR LIQUID-LIQUID EXTRACTION

EXPRESS MAIL CERTIFICATE

Mail Stop Box PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Express Mail Label No.: EV 622501950 US  
Date of Deposit: September 14, 2005

I hereby certify that the following attached paper(s) and/or fee:

1. Transmittal letter to the US Designated Elected Office Concerning Filing Under 35 USC 371 (2 pps);
2. Preliminary Amendment (8 pp);
3. Information Disclosure Statement (1 pp);
4. PTO Form 1449A (1 pp);
5. Specification: (15 pps); Claims: (7 pps); Abstract (1 pps); Drawings (4 sheets);
6. Published International Application with International Search Report;
7. Second and Supplemental Notice Informing the Applicant of the Communication of the International Application to the Designated Offices (1 pp);
8. International Preliminary Report on Patentability (5 pps);
9. Request for Recordal of Changes (2 pps);
10. Declaration of Inventorship (Rule 4.17(iv)) for US (4 pps); and
11. Return Receipt Postcard

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Albert Isles

(Typed or printed name of person mailing papers(s) and/or fee)

*Albert Isles*  
(Signature of person mailing paper(s) and/or fee)

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10/549396

JC20 Rec'd PCT/PTO 1 4 SEP 2005

OUTOKUMPU

August 17, 2005

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 GENEVA 20  
Switzerland

Agents ref. 20031019  
International application PCT/FI2004/000136  
International filing date 11 March 2004 (11.03.2004)  
Applicant(s) Outokumpu Oyj et al  
**REQUEST FOR RECORDAL OF CHANGES**

Dear Sirs

We request the recordal of a **change of one of the applicants**, i.e. the first applicant Outokumpu Oyj should be deleted from the register. The new first applicant, who is the applicant for all designated states except for the United States of America is:

address: Outokumpu Technology Oy  
Riihitontuntie 7  
FI-02200 Espoo, Finland

We also request the recordal of a **change in the name of the agent**. The new name and address of the agent is:

address Outokumpu Technology Oy  
Intellectual Property Rights Management  
P.O.Box 86  
FI-02201 Espoo, Finland

tel. +358 9 4211, telefax +358 9 4212978 (unchanged)  
e-mail patent@outokumpu.com (unchanged)

We enclose herewith the Power of Attorney as well as the assignment from the present applicant Outokumpu Oyj to Outokumpu Technology Oy.

Yours faithfully

OUTOKUMPU TECHNOLOGY OY  
Intellectual Property Rights Management

  
Marja Lahonen, Manager – IPR

Outokumpu Technology Oy  
Intellectual Property Rights Management

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20031019

## ASSIGNMENT

The undersigned **Outokumpu Oyj** having the address in Riihitontuntie 7, FI-02200 Espoo Finland, herewith assigns all the rights concerning the invention described in the

PCT Patent Application **PCT/FI2004/000136**

"METHOD AND EQUIPMENT FOR LIQUID-LIQUID EXTRACTION"

to **Outokumpu Technology Oy**, P.O. Box 86, Riihitontuntie 7, FI-02200 Espoo, Finland.

In Espoo on 17 August 2005

**Outokumpu Oyj**



name: Hannu Aarnio

position: Manager – Patent Services

We accept this assignment with all rights and obligations pertaining thereto.

In Espoo on 17 August 2005

**Outokumpu Technology Oy**



name: Marja Lahonen

position: Manager – IPR